

| L Number | Hits | Search Text  | DB  | Time stamp       |
|----------|------|--|---|------------------|
| 1        | 8    | "6031577"  | USPAT   | 2004/04/16 16:17 |
| 2        | 433  | (348/625).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16 16:32 |
| 3        | 228  | ((348/625).CCLS.) and edge                               | USPAT;<br>US-PGPUB                                      | 2004/04/16 16:25 |
| 4        | 26   | ((348/625).CCLS.) and edge and overshoot and undershoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16 17:22 |
| 5        | 62   | (348/626).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16 16:32 |
| 6        | 1    | ((348/626).CCLS.) and edge and overshoot and undershoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16 17:25 |
| 7        | 119  | (348/627).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16 16:34 |
| 8        | 11   | ((348/627).CCLS.) and edge and overshoot and undershoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16 17:25 |
| 9        | 79   | (348/628).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16 16:36 |
| 10       | 4    | ((348/628).CCLS.) and edge and overshoot and undershoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16 16:36 |
| 11       | 42   | (348/629).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16 16:36 |
| 12       | 0    | ((348/629).CCLS.) and edge and overshoot and undershoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16 16:36 |
| 13       | 144  | (348/630).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16 16:37 |
| 14       | 4    | ((348/630).CCLS.) and edge and overshoot and undershoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16 16:37 |
| 15       | 716  | (348/607).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16 16:38 |
| 16       | 3    | ((348/607).CCLS.) and edge and overshoot and undershoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16 16:38 |
| 17       | 110  | (348/252).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16 16:40 |
| 18       | 8    | ((348/252).CCLS.) and edge and overshoot and undershoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16 16:40 |
| 19       | 60   | (348/253).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16 16:40 |
| 20       | 0    | ((348/253).CCLS.) and edge and overshoot and undershoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16 16:40 |
| 21       | 542  | (382/266).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16 16:42 |
| 22       | 2124 | 21\ and edge and overshoot and undershoot                | USPAT;<br>US-PGPUB                                      | 2004/04/16 16:40 |
| 23       | 23   | ((382/266).CCLS.) and edge and overshoot and undershoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16 16:42 |
| 24       | 52   | (382/267).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16 16:43 |
| 25       | 1    | ((382/267).CCLS.) and edge and overshoot and undershoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16 16:43 |
| 26       | 149  | (382/268).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16 16:43 |
| 27       | 2    | ((382/268).CCLS.) and edge and overshoot and undershoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16 16:47 |
| 28       | 138  | (382/269).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16 16:47 |
| 29       | 1    | ((382/269).CCLS.) and edge and overshoot and undershoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16 16:43 |
| 30       | 14   | (target adj pixel) and edge and overshoot and undershoot | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/16 16:46 |
| 31       | 1253 | (target adj pixel) and edge                              | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/16 16:46 |

|    |      |  |   |                     |
|----|------|--|---|---------------------|
| 32 | 2    | ((target adj pixel) and edge ) and (vertical near horizontal near overshoot)                         | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/16<br>16:47 |
| 33 | 2    | vertical near horizontal near overshoot  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/16<br>17:08 |
| 34 | 195  | (382/263).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:50 |
| 35 | 13   | ((382/263).CCLS.) and edge and overshoot and undershoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:49 |
| 37 | 1    | "amplitude-restricting signal generator"   | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>17:06 |
| 36 | 1    | "amplitude restricting signal generator"   | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:48 |
| 38 | 84   | amplitude adj restrict\$3  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:49 |
| 39 | 13   | ((382/263).CCLS.) and edge and overshoot and undershoot) and edge and overshoot and undershoot       | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:49 |
| 40 | 13   | ((382/263).CCLS.) and edge and overshoot and undershoot) and edge and overshoot                      | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:50 |
| 41 | 7    | (amplitude adj restrict\$3) and edge and overshoot   | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:51 |
| 42 | 108  | (348/606).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:50 |
| 43 | 13   | ((348/606).CCLS.) and edge and overshoot   | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:54 |
| 44 | 234  | future\$.as.   | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:56 |
| 45 | 69   | washino\$.in.  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:56 |
| 46 | 1    | "amplitude-restricting signal generator"   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/16<br>17:06 |
| 47 | 1    | "amplitude restricting signal generator"   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/16<br>17:06 |
| 48 | 32   | (amplitude adj restrict\$3) and edge   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/16<br>17:07 |
| 49 | 8    | ((amplitude adj restrict\$3) and edge ) and (overshoot)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/16<br>17:06 |
| 50 | 24   | ((amplitude adj restrict\$3) and edge ) not ((amplitude adj restrict\$3) and edge ) and (overshoot)) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/16<br>17:07 |
| 51 | 2812 | target adj pixel   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/16<br>17:08 |
| 52 | 11   | (target adj pixel) and (horizontal\$3 and vertical\$3 and overshoot and undershoot)                  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/16<br>17:20 |

| L Number | Hits | Search Text  | DB  | Time stamp          |
|----------|------|--|---|---------------------|
| 1        | 8    | "6031577"  | USPAT   | 2004/04/16<br>16:17 |
| 2        | 433  | (348/625).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:32 |
| 3        | 228  | ((348/625).CCLS.) and edge                               | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:25 |
| 4        | 26   | ((348/625).CCLS.) and edge and overshoot and undershoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:32 |
| 5        | 62   | (348/626).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:32 |
| 6        | 1    | ((348/626).CCLS.) and edge and overshoot and undershoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:32 |
| 7        | 119  | (348/627).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:34 |
| 8        | 11   | ((348/627).CCLS.) and edge and overshoot and undershoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:34 |
| 9        | 79   | (348/628).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:36 |
| 10       | 4    | ((348/628).CCLS.) and edge and overshoot and undershoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:36 |
| 11       | 42   | (348/629).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:36 |
| 12       | 0    | ((348/629).CCLS.) and edge and overshoot and undershoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:36 |
| 13       | 144  | (348/630).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:37 |
| 14       | 4    | ((348/630).CCLS.) and edge and overshoot and undershoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:37 |
| 15       | 716  | (348/607).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:38 |
| 16       | 3    | ((348/607).CCLS.) and edge and overshoot and undershoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:38 |
| 17       | 110  | (348/252).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:40 |
| 18       | 8    | ((348/252).CCLS.) and edge and overshoot and undershoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:40 |
| 19       | 60   | (348/253).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:40 |
| 20       | 0    | ((348/253).CCLS.) and edge and overshoot and undershoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:40 |
| 21       | 542  | (382/266).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:42 |
| 22       | 2124 | 21\ and edge and overshoot and undershoot                | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:40 |
| 23       | 23   | ((382/266).CCLS.) and edge and overshoot and undershoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:42 |
| 24       | 52   | (382/267).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:43 |
| 25       | 1    | ((382/267).CCLS.) and edge and overshoot and undershoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:43 |
| 26       | 149  | (382/268).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:43 |
| 27       | 2    | ((382/268).CCLS.) and edge and overshoot and undershoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:47 |
| 28       | 138  | (382/269).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:47 |
| 29       | 1    | ((382/269).CCLS.) and edge and overshoot and undershoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:43 |
| 30       | 14   | (target adj pixel) and edge and overshoot and undershoot | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/16<br>16:46 |
| 31       | 1253 | (target adj pixel) and edge                              | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/16<br>16:46 |

|    |     |  |   |                     |
|----|-----|--|---|---------------------|
| 32 | 2   | ((target adj pixel) and edge ) and<br>(vertical near horizontal near<br>overshoot)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/16<br>16:47 |
| 33 | 2   | vertical near horizontal near overshoot  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/16<br>16:47 |
| 34 | 195 | (382/263).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:50 |
| 35 | 13  | ((382/263).CCLS.) and edge and<br>overshoot and undershoot   | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:49 |
| 37 | 1   | "amplitude-restricting signal<br>generator"  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:48 |
| 36 | 1   | "amplitude restricting signal<br>generator"  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:48 |
| 38 | 84  | amplitude adj restrict\$3  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:49 |
| 39 | 13  | ((382/263).CCLS.) and edge and<br>overshoot and undershoot) and edge and<br>overshoot and undershoot   | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:49 |
| 40 | 13  | ((382/263).CCLS.) and edge and<br>overshoot and undershoot) and edge and<br>overshoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:50 |
| 41 | 7   | (amplitude adj restrict\$3) and edge and<br>overshoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:51 |
| 42 | 108 | (348/606).CCLS.  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:50 |
| 43 | 13  | ((348/606).CCLS.) and edge and<br>overshoot  | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>16:51 |
| -  | 18  | ((("6256785") or ("6657637") or<br>("5731846") or ("5953076") or<br>("6414678") or ("5790124") or<br>("6400374") or ("6282713") or<br>("6029045") or ("5760838") or<br>("6282713") or ("6029045") or<br>("6473130") or ("6069669") or<br>("5541662") or ("6493872") or<br>("5774664") or ("6621939") or<br>("5643088") or ("5905523")).PN. | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>14:01 |
| -  | 4   | "5903680"  | USPAT   | 2004/04/16<br>15:23 |

|    |     |   |   |                     |
|----|-----|---|---|---------------------|
| 53 | 2   | ((("4404584") or ("5339115"))).PN.  | USPAT   | 2004/04/16<br>17:21 |
| 54 | 0   | jp-02230872-\$.did.   | USPAT   | 2004/04/16<br>17:21 |
| 55 | 2   | jp-02230872-\$.did.   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/16<br>17:21 |
| 56 | 5   | ((("20020047933") or ("6590617") or<br>("6278494") or ("6088065") or<br>("6614474"))).PN.   | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>17:36 |
| 57 | 65  | ((348/625).CCLS.) and edge and<br>overshoot   | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>17:22 |
| 58 | 39  | ((348/625).CCLS.) and edge and<br>overshoot ) not ((348/625).CCLS.) and<br>edge and overshoot and undershoot)   | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>17:22 |
| 59 | 6   | ((348/626).CCLS.) and edge and<br>overshoot   | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>17:25 |
| 60 | 24  | ((348/627).CCLS.) and edge and<br>overshoot   | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>17:25 |
| 61 | 0   | (min or minimum) near (max or maximum)<br>near (abs or absolute-value or<br>"absolute value") near pixel  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/16<br>17:28 |
| 62 | 25  | (min or minimum) same (max or maximum)<br>near (abs or absolute-value or<br>"absolute value") same pixel  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/16<br>17:29 |
| 63 | 14  | ((min or minimum) same (max or<br>maximum) near (abs or absolute-value or<br>"absolute value") same pixel) and edge   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/16<br>17:28 |
| 64 | 0   | ((min or minimum) same (max or<br>maximum) near (abs or absolute-value or<br>"absolute value") same pixel) and edge)<br>not ((min or minimum) same (max or<br>maximum) near (abs or absolute-value or<br>"absolute value") same pixel)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/16<br>17:29 |
| 65 | 0   | ((min or minimum) same (max or<br>maximum) near (abs or absolute-value or<br>"absolute value") same pixel) not ((min<br>or minimum) same (max or maximum) near<br>(abs or absolute-value or "absolute<br>value") same pixel)            | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/16<br>17:29 |
| 66 | 11  | ((min or minimum) same (max or<br>maximum) near (abs or absolute-value or<br>"absolute value") same pixel) not<br>(((min or minimum) same (max or<br>maximum) near (abs or absolute-value or<br>"absolute value") same pixel) and edge) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/16<br>17:29 |
| 67 | 54  | (overshoot or undershoot or over-shoot<br>or under-shoot) same (edge or contour)<br>same horizontal\$3 same vertical\$3   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/16<br>17:30 |
| 68 | 309 | ("1/4" near "1/2") and pixel and delay  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/16<br>17:37 |
| 69 | 360 | ("1/4" near "1/2") and pixel and delay<br>("high-frequency" or "high frequency")<br>and (subtractor or subtracter) and<br>(amplitude near adjust\$3) and ("minimum<br>value") and ("abs" or "absolute-value"<br>or "absolute value")    | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/16<br>17:38 |

|    |     |   |   |                     |
|----|-----|---|---|---------------------|
| 70 | 359 | ("1/4" near "1/2") and pixel and delay ("high-frequency" or "high frequency") and (subtractor or subtracter) and (amplitude near adjust\$3) and ("minimum value") and ("abs" or "absolute-value" or "absolute value") and adder   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/16<br>17:39 |
| 71 | 346 | ("1/4" near "1/2") and pixel and delay ("high-frequency" or "high frequency") and (subtractor or subtracter) and (amplitude near adjust\$3) and ("minimum value") and ("abs" or "absolute-value" or "absolute value") and adder and (edge or contour) and (overshoot or undershoot) and (vertical\$3) and (horizontal\$3) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/16<br>17:39 |
| -  | 18  | ((("6256785") or ("6657637") or ("5731846") or ("5953076") or ("6414678") or ("5790124") or ("6400374") or ("6282713") or ("6029045") or ("5760838") or ("6282713") or ("6029045") or ("6473130") or ("6069669") or ("5541662") or ("6493872") or ("5774664") or ("6621939") or ("5643088") or ("5905523"))).PN.          | USPAT;<br>US-PGPUB                                      | 2004/04/16<br>14:01 |
| -  | 4   | "5903680"   | USPAT   | 2004/04/16<br>15:23 |